

Operations and Maintenance Assumptions

v. October 2016

This document contains the assumptions for the annual operating budget. The median aligns with the benchmarks listed on page 2 and the High and Low are +/- 20% from the Median.

Annual Operations and Maintenance Budget					
Benchmark Category	Category	Description	2018 \$ (median APPA)		
			High (+20%)	Low (-20%)	
17	Admin and General	Administrative and General Salarie	1,030,000	1,236,000	824,000
17	Admin and General	Board	92,000	110,400	73,600
17	Admin and General	Legal	623,000	747,600	498,400
17	Admin and General	Insurance	919,000	1,102,800	735,200
17	Admin and General	Insurance: Distribution Operations	92,000	110,400	73,600
17	Admin and General	Office Supplies	92,000	110,400	73,600
17	Admin and General	Audits	46,000	55,200	36,800
17	Admin and General	Dues and NERC	92,000	110,400	73,600
17	Admin and General	Allocation to city overhead	1,407,000	1,688,400	1,125,600
17	Admin and General	Rental of Admin Facility	1,220,000	1,464,000	976,000
17	Admin and General	Staff support	103,000	123,600	82,400
5,716,000				-	-
16	Customer Accounts	Software	46,000	55,200	36,800
16	Customer Accounts	Staff Support	139,000	166,800	111,200
16	Customer Accounts	Salaries, includes 35% loading	1,391,000	1,669,200	1,112,800
			-	-	-
16	Customer Service	Energy Rebates	3,034,000	3,640,800	2,427,200
16	Customer Service	Energy Programs	1,652,000	1,982,400	1,321,600
16	Customer Service	Staff Support	53,000	63,600	42,400
16	Customer Service	Salaries, includes 35% loading	527,000	632,400	421,600
6,842,000			-	-	-
14	Dispatch and Other	Software	46,000	55,200	36,800
14	Dispatch and Other	Staff support	22,000	26,400	17,600
14	Dispatch and Other	Salaries, includes 35% loading	224,000	268,800	179,200
			-	-	-
14	Distribution Maint	Materials	206,000	247,200	164,800
14	Distribution Maint	Research and Development	228,000	273,600	182,400
			-	-	-
14	Distribution Ops	Software	46,000	55,200	36,800
14	Distribution Ops	Meter Maintenance	20,000	24,000	16,000
14	Distribution Ops	Fuel	46,000	55,200	36,800
14	Distribution Ops	SCADA	110,000	132,000	88,000
14	Distribution Ops	Staff Support	582,000	698,400	465,600
14	Distribution Ops	Salaries, includes 35% loading	5,818,000	6,981,600	4,654,400
7,348,000					
	Total		19,906,000	23,887,200	15,924,800
	Property Tax Reimbursement	To other governmental entities	2,252,325		

Source of data: This data has been compiled since 2007 from reports and studies completed by the city and consultants. Most recently, the data has been updated through comparison to peer utilities and checked through the American Public Power Association (APPA) benchmarks included in this document.

[APPA Benchmarks Document](#)

Benchmark Comparison									
From APPA Report - 2013 Data - Updated August 18, 2016 -Benchmarks inflated to 2018 \$ from 2013 @ 2%									
Distribution Operation and Maintenance Expense per Retail Customer (#14)									
Boulder Budget		West				20,000-50,000 Customers			
Total \$	\$/customer	Mean Weighted	1st Quartile	Median	3rd Quartile	Mean Weighted	1st Quartile	Median	3rd Quartile
\$7,348,000	\$152.45	\$169	\$151	\$179	\$221	\$195	\$131	\$176	\$216
Ratio		0.90	1.01	0.85	0.69	0.78	1.16	0.87	0.70
Distribution Operation and Maintenance Expenses per Circuit Mile (#15)									
Boulder Budget		West				20,000-50,000 Customers			
Total \$	\$/circuit mile	Mean Weighted	1st Quartile	Median	3rd Quartile	Mean Weighted	1st Quartile	Median	3rd Quartile
\$7,348,000	\$14,130.77	\$7,083	\$4,657	\$7,917	\$14,134	\$5,197	\$4,306	\$6,224	\$11,051
Ratio		2.00	3.03	1.78	1.00	2.72	3.28	2.27	1.28
Customer Accounting, Customer Service, and Sales Expense per Retail Customer (#16)									
Boulder Budget		West				20,000-50,000 Customers			
Total \$	\$/customer	Mean Weighted	1st Quartile	Median	3rd Quartile	Mean Weighted	1st Quartile	Median	3rd Quartile
\$6,842,000	\$141.95	\$160	\$70	\$94	\$138	\$87	\$47	\$70	\$118
Ratio		0.89	2.04	1.51	1.03	1.63	2.99	2.04	1.20
Admin and General Expenses per Retail Customer (#17)									
Boulder Budget		West				20,000-50,000 Customers			
Total \$	\$/customer	Mean Weighted	1st Quartile	Median	3rd Quartile	Mean Weighted	1st Quartile	Median	3rd Quartile
\$5,716,000	\$118.59	\$146	\$134	\$176	\$247	\$185	\$102	\$158	\$198
Ratio		0.81	0.89	0.68	0.48	0.64	1.17	0.75	0.60
Combined Categories #14,#16 and #17 per Retail Customer									
Boulder Budget		West				20,000-50,000 Customers			
Total \$	\$/customer	Mean Weighted	1st Quartile	Median	3rd Quartile	Mean Weighted	1st Quartile	Median	3rd Quartile
\$19,906,000	\$412.99	\$475	\$354	\$448	\$606	\$468	\$280	\$403	\$532
Ratio		0.87	1.17	0.92	0.68	0.88	1.47	1.02	0.78